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	Anthony Louis Devico	11076-002001	CONFIRMATION NO.
02/12/2002			
JR Ph D P C		EXAMINER	
ge Drive		WINKLER,	ULRIKE
Suite 500 San Diego, CA 92122		ART UNIT	PAPER NUMBER
•		1648	G
		DATE MAILED: 02/12/2002)
	JR Ph D P C ge Drive	JR Ph D P C ge Drive	JR Ph D P C ge Drive WINKLER, 122 ART UNIT 1648

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)
Offic Action Summary	09/684,026	DEVICO ET AL.
Action Summary	Examiner	Art Unit
The MAIL INC DATE And	Ulrike Winkler, Ph.D.	1648
The MAILING DATE of this communication Peri df r Reply	appears n the cover sheet	with the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, and If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by significant or period for reply will, by significant period for reply will, by significant for the maximum statutory period for reply will, by significant for the maximum statutory period for reply will, by significant for the maximum statutory period for reply will, by significant for the maximum statutory period for reply will, by significant for the maximum statutory period for reply will, by significant for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the period for reply will be supported for the maximum statutory period for reply will be supported for the maximum statutory period for reply will be supported for the period for reply will be supported for reply will be supported for the period for reply will be supported for the period for reply will be supported for the period for reply will be supported for reply will be supported for the period for reply wi	JN. R 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the period will apply and will expire SIX (6) MC	a reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this communication.
1) Responsive to communication(s) filed on		
	This action is non-final.	
3) Since this application is in condition for all	OWANCE except for formal ma	atters prosecution as to the movite is
and a service unit the practice unit	der <i>Ex parte Quayle</i> , 1935 C	.D. 11, 453 O.G. 213.
Disp sition of Claims		
4) Claim(s) $1-72$ is/are pending in the applica		
4a) Of the above claim(s) is/are without	drawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-72</u> are subject to restriction and/	or election requirement.	
Application Papers		
9) ☐ The specification is objected to by the Exami	iner.	
10) The drawing(s) filed on is/are: a) □ ac		he Examiner
Applicant may not request that any objection to	the drawing(s) be held in abeva	ance See 37 CED 1 95(a)
11) The proposed drawing correction filed on	is: a) ☐ approved b) ☐ d	isapproved by the Examiner
if approved, corrected drawings are required in	reply to this Office action.	The same of the sa
12)☐ The oath or declaration is objected to by the	Examiner.	
Priority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C. 8	\$ 119(a)-(d) or (f)
a) ☐ All b) ☐ Some * c) ☐ None of:		3 (4) (4) 3, (1).
 Certified copies of the priority docume 	nts have been received.	
2. Certified copies of the priority docume	nts have been received in Ar	onlication No
 Copies of the certified copies of the pri 	iority documents have been	received in this National Stone
* See the attached detailed Office action for a lis	st of the certified copies not r	received.
14) Acknowledgment is made of a claim for domes	stic priority under 35 U.S.C. §	§ 119(e) (to a provisional application)
 a) The translation of the foreign language p 15) Acknowledgment is made of a claim for domestachment(s) 	rovisional application has be	on received
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Si 5) Notice of In 6) Other:	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152)
Patent and Trademark Office D-326 (Rev. 04-01)	Action Summary	

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- 1. Claims 1-17 and 24, drawn to a chimeric polypeptide wherein the polypeptide is selected from *Retroviridae* (HIV, SIV, FIV, FeLV), classified in class 424, subclass 207.1.
- 2. Claims 1-5, 10-17 and 24, drawn to a chimeric polypeptide wherein the polypeptide is selected from *Parvoviridae* (FPV = feline panleukemia virus), classified in class 424, subclass 233.1.
- 3. Claims 1-5, 10-17 and 24, drawn to a chimeric polypeptide wherein the polypeptide is selected from *Herpesviridae*, classified in class 424, subclass 229.1.
- 4. Claims 18-23, drawn to a chimeric polypeptide which contain a third heterologous domain, classified in class 424, subclass 193.1.
- 5. Claims 25-28, drawn to a polynucleotide encoding a chimeric polypeptide, classified in class 536, subclass 23.4.
- 6. Claims 29-33, drawn to an antibody to the chimeric polypeptide, classified in class 530, subclass 388.3.
- 7. Claims 34-43 and 45, drawn to a method of administering an effective amount of chimeric polypeptide to achieve antibody production, classified in class 800, subclass 3.

- 8. Claims 34-43 and 45, drawn to a method of administering an effective amount of a <u>polynucleotide</u> encoding the chimeric polypeptide to achieve antibody production, classified in class 800, subclass 3.
- Claims 38 and 44, drawn to a method of administering an effective amount of chimeric polypeptide to achieve a CTL response, classified in class 800, subclass
- 10. Claims 38 and 44, drawn to a method of administering an effective amount of a polynucleotide encoding the chimeric polypeptide to achieve a CTL response, classified in class 800, subclass 3.
- 11. Claims 46-65, drawn to a method of identifying an agent that inhibits an interaction between the virus and a co-receptor or virus and a receptor, classified in class 436, subclass 501.
- 12. Claims 66-72, drawn to a method of identifying an agent that inhibits viral infection of a cell, classified in class 435, subclass 7.1.

The inventions are distinct, each from the other because of the following reasons:

Groups 1-6 are compositions and are distinct from groups 7-12 which are drawn to methods. Groups 1-6 are compositions and each is distinct from the other because they contain different materials. Group 1 comprises a chimeric polypeptide containing *Retroviridae* sequences. Group 2 comprises a chimeric polypeptide containing *Parvovirdae* sequences. Group 3 comprises a chimeric polypeptide containing *Herpesviridae* sequences. Group 4 comprises a chimeric polypeptide containing three protein sequences including an

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immunomodulatory sequence. Group 5 comprises the polynucleotide sequence for the chimeric protein; and DNA is made up of nucleic acids. Group 6 comprises an antibody to the chimeric protein, although antibodies themselves are proteins, they are different molecules with different structures. Though there may be overlap for these groups, the search for one group will not be coextensive with that of the other group.

Groups 7-12 are drawn to methods and each is distinct from the other because they utilize different starting materials, therefore the outcomes are not expected to be the same. Groups 7 and 9 are drawn to a method for administering an effective amount of chimeric polypeptide. Group 7 the administration of the chimeric protein results in an antibody production response while the result with group 9 is to produce a CTL response. Groups 8 and 10 are drawn to administering a polynucleotide. Group 8 the administration of the chimeric protein results in an antibody production response while the result with group 10 is to produce a CTL response. Group 11 is drawn to a method of identifying an agent that inhibits the binding of the virus to the receptor or co-receptor. Group 12 is drawn to a method of identifying an agent that inhibits viral replication in a cell. The method of groups 11 and 12 uses different steps from the other methods, thereby setting them apart. Groups 7-10 differ from each other by utilizing different starting materials and techniques, the outcome would therefore not be expected to be the same.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification and divergent subject matter, restriction for examination purposes as indicated is proper.

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Claim 1 link(s) inventions 1-3. The restriction requirement among the linked inventions is subject to the nonallowance of the linking claim(s), claim 1. Upon the allowance of the linking claim(s), the restriction requirement as to the linked inventions shall be withdrawn and any claim(s) depending from or otherwise including all the limitations of the allowable linking claim(s) will be entitled to examination in the instant application. Applicant(s) are advised that if any such claim(s) depending from or including all the limitations of the allowable linking claim(s) is/are presented in a continuation or divisional application, the claims of the continuation or divisional application may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application. Where a restriction requirement is withdrawn, the provisions of 35 U.S.C. 121 are no longer applicable. *In re Ziegler*, 44 F.2d 1211, 1215, 170 USPQ 129, 131-32 (CCPA 1971). See also MPEP § 804.01.

This application contains claims directed to the following patentably distinct species of the claimed invention:

Group 1 contains the following species of immunodeficiency virus:

- 1) HIV
- 2) SIV
- 3) FIV
- 4) FeLV

The above listed species are distinct because they encode different viral polypeptides and the infection of one species of virus will not provide protection from infection by another species of virus, indicating that the polypeptides are unique to each species. The examination of species

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1-4 in the composition would require different searches in the scientific literature and would involve the consideration of separate issues in determining patentability.

Group 11 contains the following species of test agents:

- a) peptide
- b) organic molecule
- c) antibody
- d) antiviral
- e) immunodeficiency virus co-receptor

The species differ in their physical and structural properties and are distinct and unobvious in view of each other and are therefore patentably distinct. The examination of species a-e in the method parameters would require different searches in the scientific literature and would involve the consideration of separate issues in determining patentability.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, 1, 46 and 57 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after

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the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ulrike Winkler, Ph.D. whose telephone number is 703-308-8294. The examiner can normally be reached M-F, 8:30 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Housel, can be reached at 703-308-4027.

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The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 or for informal communications use 703-308-4426.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0196.

Ulrike Winkler, Ph.D.

JEFFREY STUCKER PRIMARY EXAMINER